

CLAIMS

1. An isolated polypeptide comprising the amino acid sequence of SEQ ID NOs: 2 or 3.

5 2. The polypeptide of Claim 1 wherein the sequence of the polypeptide is SEQ ID NOs: 2 or 3.

3. An isolated polynucleotide comprising a nucleotide sequence sharing at least 70% homology to a nucleotide sequence selected from the group consisting of:

10 (a) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NOs: 2 or 3;

 (b) the polynucleotide complementary to nucleotide sequence of (a).

4. The polynucleotide of Claim 3 which encodes a polypeptide comprising the amino acid sequence of SEQ ID NOs: 2 or 3.

15 5. A vector containing the polynucleotide of Claim 3.

6. A genetically engineered host cell comprising the vector of Claim 5.

20 7. A method for producing a polypeptide having the activity of Bin1b protein, which comprises:

 (a) culturing the host cell of Claim 6 under the expression conditions;

 (b) isolating the polypeptides having the activity of Bin1b protein from the culture.

25 8. An antibody specifically bound with the Bin1b polypeptide of Claim 1.

9. A pharmaceutical composition comprising a safe and efficient amount of the polypeptide of Claim 1 and a pharmaceutically acceptable carrier.

30 10. A microbicide comprising an antimicrobially efficient amount of polypeptide of Claim 1.